



Syntilo™ 9828

Synthetic Cutting & Grinding Fluid

Description

Castrol Syntilo™ 9828 is a water soluble, synthetic cutting and grinding fluid engineered for performance on today's aerospace aluminum alloys and composite fiber material.

Application

- Nonstaining to aluminum alloys and formulated to pass major aerospace tests.
- Low foaming action improves housekeeping, filtration, and cooling characteristics even in soft waters or high agitation situations.
- Prevents in-process rust and helps protect machine tools from damaging corrosion without the use of nitrated additives.
- Extended fluid life can help to reduce maintenance and downtime
- Chemistry compatible for machining composite fiber material. Boeing approved BAC 5578

Typical Characteristics

Name	Method	Units	Syntilo 9828
Appearance of Concentrate	Visual	-	Clear, Blue Fluid
Appearance of Dilution	Visual	-	Transparent, slightly hazy
pH of Concentrate	-	-	8.5 - 9.2
pH of Dilution @5%	CN-TM-069	-	8.2 - 8.7
Specific Gravity @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m ³	1.06 – 1.08
Bulk Density	-	lbs/gal	8.45

Subject to usual manufacturing tolerances.

Recommended Concentrations

Grinding - I.D., O.D., centerless: 4.0 – 6.0%
Milling, drilling, turning, reaming, light duty broaching: 4.0 - 8%
Form milling, tapping, sawing: 4.0 - 10%

Concentration Control

% Concentration	Refractometer Reading
3.0	1.2
5.0	2.1
7.0	2.9
10.0	4.1

User Advice

Syntilo 9828 can be used in central systems or individual sumps in a variety of medium duty applications on ferrous or nonferrous materials, including carbon fiber composites. Consult your Castrol Sales Engineer for questions regarding compatibility.

Storage

To avoid product deterioration always keep the container/drum tightly sealed. Store the product in a cool, dry place away from direct sunlight. Prevent exposure to frost and avoid water ingress. For optimum product stability, it is preferable to store the product indoors between 5°C and 45 °C / 41°F and 113°F.

For more details, please refer the product safety data sheet.

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